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## Complete set of claims

1(canceled).

2(currently amended). The A composition comprising a photoacid generator and a fluorinated polymer according to claim 1, where the fluorinated polymer comprising the unit of structure 1 is a reaction product of polymer containing an aliphatic monocyclic fluoroalcohol unit with a at least one compound capable of functionalizing the fluoroalcohol unit with an alkyloxycarbonylalkyl group of structure -(CR<sub>3</sub>R<sub>4</sub>)p(CO)OR<sub>5</sub>, where R<sub>3</sub> and R<sub>4</sub> are independently H, F, (C<sub>1</sub>-C<sub>8</sub>)alkyl, (C<sub>1</sub>-C<sub>8</sub>)fluoroalkyl, cycloalkyl, cyclofluoroalkyl, (CR<sub>3</sub>R<sub>4</sub>)p(CO)OR<sub>5</sub>, R<sub>3</sub> and R<sub>4</sub> may combine to form an alkylspirocyclic or a fluoroalkylspirocyclic group, R<sub>5</sub> is H or an acid labile group, and p=1-4.

3(canceled).

4(canceled).

5(canceled).

6(canceled).

7(currently amended). The composition according to claim 24, where the polymer containing an aliphatic monocyclic fluoroalcohol unit comprises at least one unit-comprising the unit of structure 1 is a reaction product of polymer containing an aliphatic monocyclic fluoroalcohol unit with a compound capable of functionalizing the fluoroalcohol unit with an alkyloxycarbonylalkyl group, and further where the monocyclic fluoroalcohol polymer is selected from,

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where Rf is a fluoroalkyl group (C1-C8),

Ra, Rb, Rc, Re, Rg and Rh are independently alkyl, fluoroalkyl, fluorocycloalkyl, cycloalkyl, and Ra-Re and Rg can independently be substituted with alkyl, fluorocycloalkyl, cycloalkyl, or with a spirofluoroalkyl or spiroalkyl substituent,

Y is independently alkyl or fluoroalkyl spacer group (C<sub>1</sub>-C<sub>8</sub>),

X is independently CF<sub>2</sub> and or O

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8(original). The composition of claim 2, where the alkyloxycarbonylalkyl group is selected from t-butyloxycarbonylmethyl, methyl-adamantyloxycarbonylmethyl, ttmethyl-norbornyloxycarbonylmethyl, amyloxycarbonylmethyl. butyloxycarbonylpropyl and t-butyloxycarbonyldifluorobutyl.

9(currently amended). The composition of claim  $\underline{2}$  4, where the acid labile group is selected from secondary and tertiary alkyls, acetals and ketals, trimethylsilyl, βtrimethylsilyl substituted alkyls, tetrahydrofuranyl, tetrahydropyranyl, substituted or unsubstituted methoxymethoxycarbonyl, and β-trialkylsilylalkyl.

10(currently amended). The composition of claim 2 4, where the fluoroalcohol unit is further functionalized with a compound comprises further units containing nonacid labile groups and/or acid labile groups.

11(currently amended). The composition of claim 2 4, where the polymer containing an aliphatic monocyclic fluoroalcohol unit is selected from poly(bicyclo[2.2.1]hopt-5-en-2-yl)-1,1,1-trifluoro-2-(trifluoromethyl)propan-2-ol), poly(1,1,2,3,3-pentafluoro-4-trifluoromethyl-4-hydroxy-1,6-heptadiene and poly(1,1,2,3,3-pentafluoro-4-trifluoroalkyl-4-hydroxy-1,6-heptadiene).

12(currently amended). The composition of claim 2 4, where the composition further comprises a polymer with polymer comprises a mixture of polymers comprising monocyclic units and polymers comprising multicyclic units in the polymer backbone.

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13(currently amended) The composition of claim 12, where the polymer mixture is poly(bicyclo[2.2.1]hopt 5 on 2 yl)-1,1,1 trifluoro 2 (trifluoromethyl)propan-2-ol) with the multicyclic unit is poly(1,1,2,3,3-pentafluoro-4-trifluoromethyl-4-hydroxy-1,6-heptadiene) protected with an alkyloxycarbonylalkyl group.

14(currently amended). The composition of claim 24, where the composition further comprises a dissolution inhibitor.

15(currently amended): The composition of claim 2 + 4, where the composition further comprises a base or a photobase.

The composition of claim 2 4, further comprising 16(currently amended). secondary polymers.

17(currently amended). The composition of claim 2 4, where the photoacid generator is selected from diazonium salts, iodonium salts, sulfonium salts, triazines, oxazoles, oxadiazoles, thiazoles, substituted 2-pyrones, phenolic sulfonic esters and mixtures thereof.